CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2015 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/NK/W.No.03/CSR-1026a/CEMENT/2019-20 Date: 02.08.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Naveen Krishnaiah,** Contractor, No. 41C, 14th Cross, Mahalakshmi Layout, Bangalore.
* Name of Work	:	Providing children's playing equipments at Amba Bhavani park in Ward No.03, Attur, BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-09/W.O/56/2019-20 Dated : 06.07.2019
* Sample ID	:	Cement
Sample Received on	:	01.08.2019
Period of Testing	:	01.08.2019 to 02.08.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	385 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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Job No.: CTCE/BBMP/NK/W.No.03/CSR-1026a/SAND-Gradation/2019-20 02.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Naveen Krishnaiah,** Contractor, No. 41C, 14th Cross, Mahalakshmi Layout, Bangalore.
* Name of Work	:	Providing children's playing equipments at Amba Bhavani park in Ward No.03, Attur, BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-09/W.O/56/2019-20 Dated : 06.07.2019
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	01.08.2019
Date of Testing	:	02.08.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.50	90-100	90-100	90-100	95-100
2.36	81.00	60-95	75-100	85-100	95-100
1.18	59.80	30-70	55-90	75-100	90-100
600 Micron	37.80	15-34	35-59	60-79	80-100
300 Micron	17.30	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/NK/W.No.03/CSR-1026a/AGG/GR/2019-20 02.08.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Naveen Krishnaiah,** Contractor, No. 41C, 14th Cross, Mahalakshmi Layout, Bangalore.
* Name of Work	:	Providing children's playing equipments at Amba Bhavani park in Ward No.03, Attur, BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-09/W.O/56/2019-20 Dated : 06.07.2019
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	01.08.2019
Date of Testing	:	02.08.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.06	95-100	85-100
10	31.76	25-55	0-20
4.75	5.36	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/NK/W.No.03/CSR-1026a/Kerb Stone/2019-20

05.08.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Naveen Krishnaiah,** Contractor, No. 41C, 14th Cross, Mahalakshmi Layout, Bangalore.
* Name of work	:	Providing children's playing equipments at Amba Bhavani park in Ward No.03, Attur, BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-09/W.O/56/2019-20 Dated : 06.07.2019
* Sample ID	:	Kerb Stone
* Grade of Concrete	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	03.08.2019
Date of Testing	:	05.08.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.385	2513.83	1.56	0.952	22.55	11.48	12.40	13.02	16.28
2	50.00	77.00	0.379	2506.79	1.54	0.950	23.60	12.02	12.98	13.66	17.07
3	50.00	80.00	0.396	2521.01	1.60	0.957	24.25	12.35	13.34	13.94	17.43

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/NK/W.No.03/CSR-1026a/SAND-Gradation/2019-20

05.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Naveen Krishnaiah,** Contractor, No. 41C, 14th Cross, Mahalakshmi Layout, Bangalore.
* Name of Work	:	Providing children's playing equipments at Amba Bhavani park in Ward No.03, Attur, BBMP, Bangalore.
*Reference	:	EE(YNK.D)E-PMT-09/W.O/56/2019-20 Dated : 06.07.2019
*Sample ID	:	Fine Aggregates (Sand Pointing)
Technical Reference	:	IS : 1542 - 1992 (RA-2014)
Sample Received on	:	03.08.2019
Date of Testing	:	05.08.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	97.70	95-100
2.36	96.20	95-100
1.18	93.00	90-100
600 Micron	86.50	80-100
300 Micron	40.00	20-65
150 Micron	7.50	0-15

* Information is furnished by the Customer/Representative

Civil-Tech Consultants & Engineers Bangalore

Remarks : This tested sample satisfies requirement.

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